

Product datasheet for **RG222797**

SGK196 (POMK) (NM_032237) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SGK196 (POMK) (NM_032237) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SGK196
Synonyms:	MDDGA12; MDDGC12; SGK196
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG222797 representing NM_032237 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAAAGCAGCCCCAGAACAGCAGGAGAGGCCCTCGCCCCGAGAGGTGCCGCCAGCTGTTGGGCTGC
TGCTGATCATGGCCCTGATGAATACTCTGCTCTACCTCTGCCTCGACCACTTCTTCATCGCTCCTCGACA
ATCCACTGTGGACCCACACACTGTCCCTATGGTCACTTCAGGATAGGACAGATGAAAACTGCTCACCT
TGGCTGCTCCTGCGAGGAGCTGAGAACAGAAGTGAAGACAGCTGAAGCGTGTGGGAAGGAGCTGTAAGA
GAGTCTTTCTGTCTGAGTGAAGGAGCACAAAGTTGCACTCTCACAGCTCACAGCTGGAGATGAAAGA
TGATTTCCATCCATGGACTGCAGATGCTGAAATCTCTCAAGGCACACATGTTGTCACGCTGCTTGGCTAT
TGTGAGGATGACAACACTATGCTTACTGAATATCACCCCTTAGGTTCTTGAAGTAACTGGAAGAAACAC
TAAACCTTTCAAAGTACCAAAATGTGAACACGTGGCAGCACAGGCTGGAGCTGGCCATGGACTATGTCAG
CATCATAATTACCTGCACCACAGCCCTGTGGGCACACGGGTCATGTGCGACTCCAACGACTGCCGAAG
ACACTGTCCCAGTATCTGCTAACAAGCAACTTCAGCATTTGGCAATGACTTGGACGCCTTACCCTGG
TGAACCACAGTCCGGGATGCTGGTGAAGTGGCCACAGGGAGCTGCATGGGGATTTCTGGCTCCAGA
GCAACTGTGGCCCTATGGAGAGGACGTGCCTTTCCACGATGATCTCATGCCCTCATATGATGAGAAGATT
GACATTTGGAAGATCCCAGACATCTCCAGTTTCTTCTGGGGCACATTGAAGGGAGTGATATGGTCCGAT
TCCATTTGTTGATATTCAAAGCATGCAAGAGCCAGACTCCCTCAGAAAGACCCACTGCCAGGACGT
TCTGGAGACTACCAGAAGTCTTGGATACACTTAGAGATGCCATGATGTCTCAGCAAGAGAGATGCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG222797 representing NM_032237
Red=Cloning site Green=Tags(s)

MEKQPQNSRRGLAPREVPPAVGLLLIMALMNTLLYLCLDFFIAPRQSTVDPHCPYGHFRIGQMKNCSPL
 WLSCEELRTEVRQLKRVGEGAVKRVFLSEWKEHKVALSQLTSLEMKDDFLHGLQMLKSLQGTHVVTLLGY
 CEDDNTMLTEYHPLGSLNLEETLNL SKYQNVNTWQHRLELAMDYVSIINYLHHSVPVGTVMCDSNDLPK
 TLSQYLLTSNFSILANDLDALPLVNHSSGMLVKCGHRELHGDFVAPEQLWPYGEDVPFHDDLMPSTYDEKI
 DIWKIPDISSFLLGHIEGSDMVRFHFLFDIHKACKSQTPSERPTAQDVLETYQKVLDTLRDAMMSQAREML

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_032237

ORF Size: 1050 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_032237.5](#)

RefSeq Size: 1612 bp

RefSeq ORF: 1053 bp

Locus ID: 84197

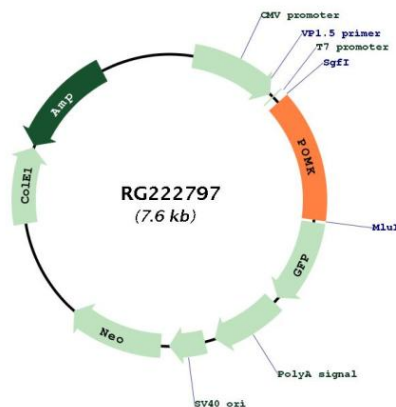
UniProt ID: [Q9H5K3](#)

Cytogenetics: 8p11.21

Protein Families: Druggable Genome, Protein Kinase, Transmembrane

Gene Summary: This gene encodes a protein that may be involved in the presentation of the laminin-binding O-linked carbohydrate chain of alpha-dystroglycan (a-DG), which forms transmembrane linkages between the extracellular matrix and the exoskeleton. Some pathogens use this O-linked carbohydrate unit for host entry. Loss of function compound heterozygous mutations in this gene were found in a human patient affected by the Walker-Warburg syndrome (WWS) phenotype. Mice lacking this gene contain misplaced neurons (heterotopia) in some regions of the brain, possibly from defects in neuronal migration. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, May 2013]

Product images:



Circular map for RG222797